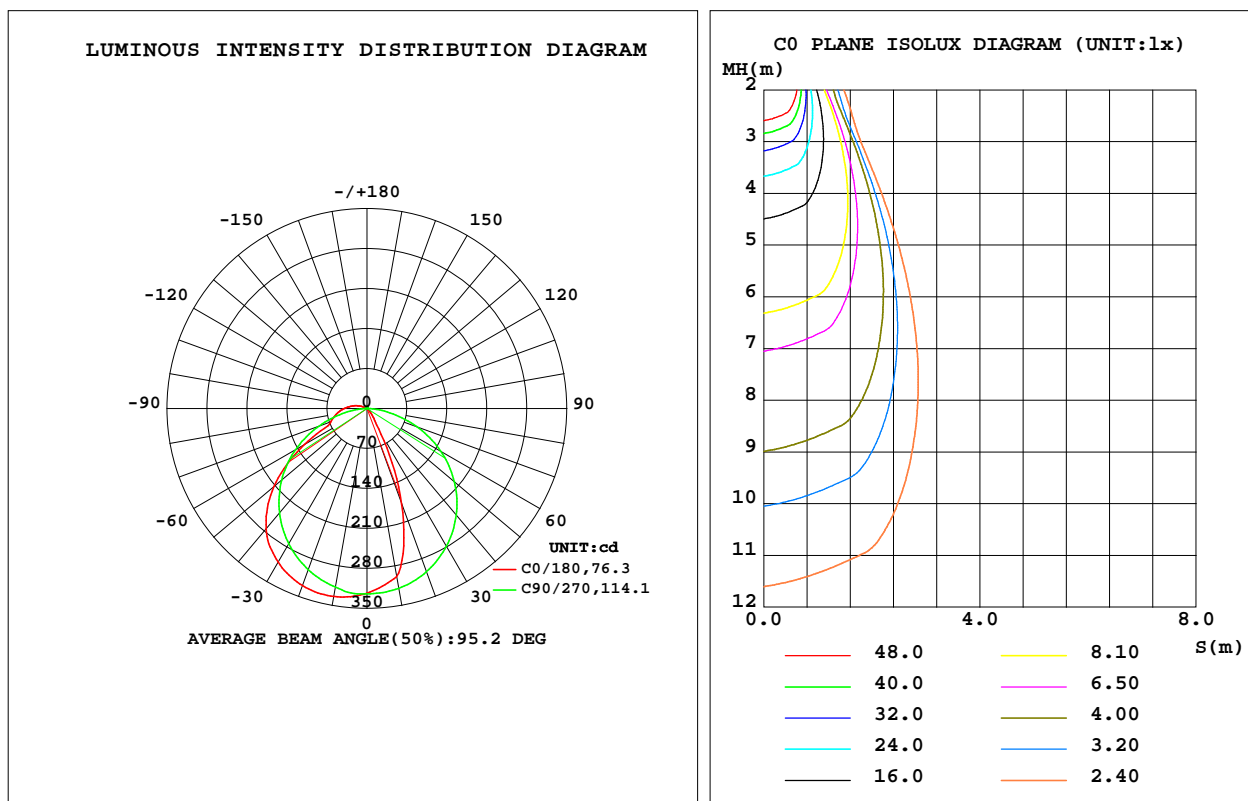


## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.6797A P:16.31W PF:1.000 Freq:0Hz Lamp Flux:730.136x1 lm		
NAME: ALS-LR3840FDXWS1000(B)	TYPE:	WEIGHT:
SPEC.:ALS-LR3840FDXWS1000(B)-F15NW9X-BC	DIM.: 1000*38*40mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*38	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 44.76 lm/W			
MODELS	LR3840FDXWS1000(B)	I <sub>max</sub> (cd)	334.5	S/MH(C0/180)	0.65
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	730.14	h UP,DN(C0-180)	1.2,41.6
NOMINAL FLUX(lm)	730.136	CIE CLASS	DIRECT	h UP,DN(C180-360)	2.1,55.1
LAMPS INSIDE	1	h up(%)	3.3	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	24	h down(%)	96.7	CIBSE SHR MAX	1.10



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2021-03-11

g Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.950m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

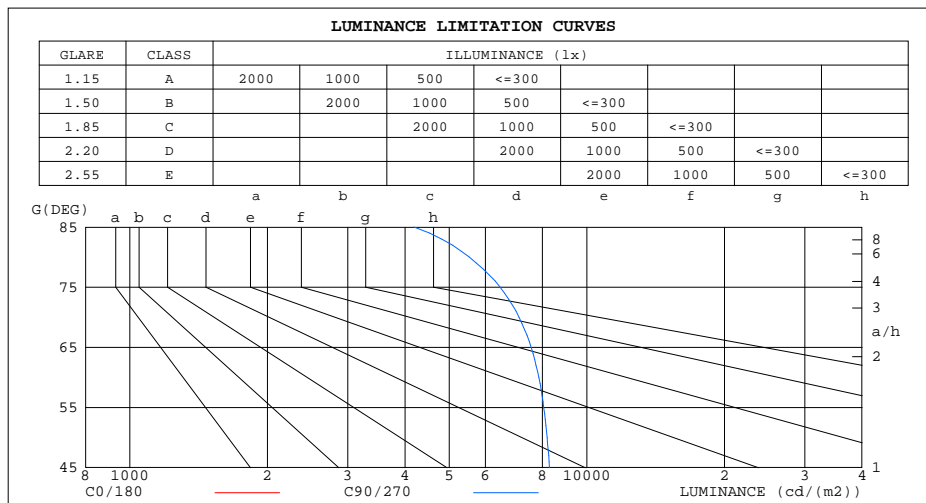
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	299.3	306.6	319.7	330.3	334.2	330.7	317.7	304.5	0- 10	30.65	30.65	4.2,4.2
20	178.1	258.1	304.3	324.2	330.0	321.3	300.5	254.0	10- 20	85.67	116.3	15.9,15.9
30	41.56	146.7	278.5	305.6	311.0	301.3	273.8	144.3	20- 30	117.3	233.6	32,32
40	12.57	38.38	243.3	274.1	274.9	268.9	238.3	37.21	30- 40	124.3	357.8	49,49
50	3.060	11.93	200.0	227.7	212.9	221.5	195.0	10.82	40- 50	119.0	476.9	65.3,65.3
60	0.1536	2.790	149.2	159.7	126.5	153.6	144.6	2.625	50- 60	102.3	579.2	79.3,79.3
70	0.1937	0.1870	92.42	73.33	67.53	68.84	88.73	0.1743	60- 70	68.79	647.9	88.7,88.7
80	0.3398	0.2472	36.52	43.41	53.72	41.57	34.74	0.1603	70- 80	38.27	686.2	94,94
90	0.5075	0.4078	0.8969	28.03	40.10	27.12	0.1271	0.3203	80- 90	20.02	706.2	96.7,96.7
100	0.6476	0.5947	0.7414	14.67	26.53	14.21	0.4768	0.5002	90-100	10.60	716.8	98.2,98.2
110	0.8481	1.004	1.182	2.041	13.12	1.915	1.169	0.8136	100-110	5.307	722.1	98.9,98.9
120	1.447	1.610	1.896	0.2205	0.2518	0.1069	1.738	1.408	110-120	1.720	723.9	99.1,99.1
130	2.103	2.226	2.457	0.3543	0.0935	0.3204	2.158	1.897	120-130	1.118	725.0	99.3,99.3
140	2.750	2.752	2.711	0.8363	0.2878	0.7339	2.465	2.389	130-140	1.273	726.3	99.5,99.5
150	3.252	3.053	2.959	1.712	0.8635	1.668	2.766	2.685	140-150	1.313	727.6	99.6,99.6
160	3.713	3.380	3.359	2.812	1.994	2.856	3.294	3.079	150-160	1.243	728.8	99.8,99.8
170	4.081	3.781	3.767	3.734	3.193	3.839	3.781	3.627	160-170	0.9576	729.8	99.9,99.9
180	3.981	4.241	4.148	4.081	3.941	4.215	4.188	4.101	170-180	0.3697	730.1	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:JYH  
 Test Date:2021-03-11

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.950m [K=1.0000]  
 Remarks:

### LUMINANCE LIMITATION CURVES

Test:U:24.00V I:0.6797A P:16.31W PF:1.000 Freq:0Hz Lamp Flux:730.136x1 lm		
NAME: ALS-LR3840FDXWS1000(B)	TYPE:	WEIGHT:
SPEC.:ALS-LR3840FDXWS1000(B)-F15NW9X-BC	DIM.: 1000*38*40mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*38	Shielding Angle:



LUMINANCE cd/(m2)		
G( DEG)	C0/180	C90/270
85	125	4186
80	51	5535
75	32	6462
70	15	7111
65	10	7553
60	8	7850
55	49	8049
50	125	8188
45	249	8287

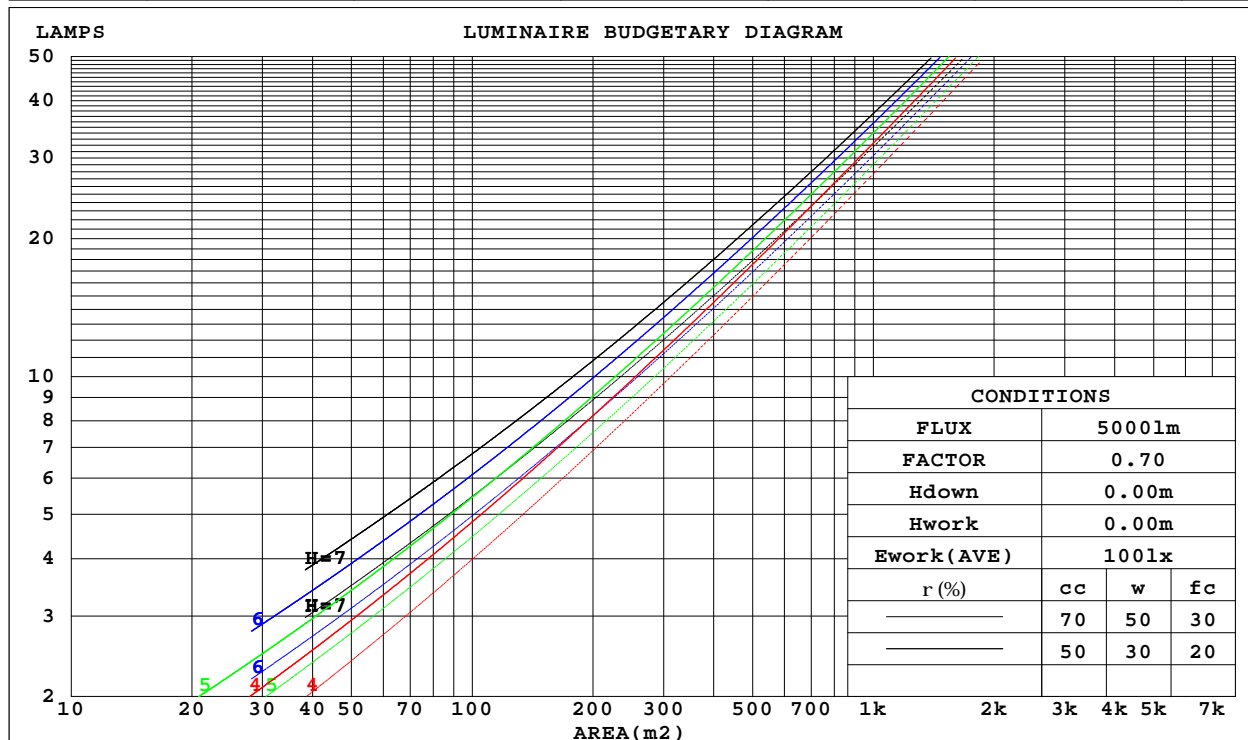
C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:JYH  
 Test Date:2021-03-11

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.950m [K=1.0000]  
 Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.6797A P:16.31W PF:1.000 Freq:0Hz Lamp Flux:730.136x1 lm		
NAME: ALS-LR3840FDXWS1000(B)	TYPE:	WEIGHT:
SPEC.:ALS-LR3840FDXWS1000(B)-F15NW9X-BC	DIM.: 1000*38*40mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*38	Shielding Angle:

r <sub>cc</sub>	80%			70%			50%			30%			10%			0
r <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2021-03-11

g Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.950m [K=1.0000]  
Remarks:

WEC AND CCEC

Test:U:24.00V I:0.6797A P:16.31W PF:1.000 Freq:0Hz Lamp Flux:730.136x1 lm		
NAME: ALS-LR3840FDXWS1000(B)	TYPE:	WEIGHT:
SPEC.:ALS-LR3840FDXWS1000(B)-F15NW9X-BC	DIM.: 1000*38*40mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*38	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0	
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
rfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.298	.170	.054	.290	.165	.053	.275	.158	.050	.261	.151	.048	.248	.144	.046		
2.0	.276	.151	.046	.269	.148	.046	.256	.142	.044	.244	.137	.043	.232	.131	.041		
3.0	.255	.136	.041	.249	.133	.040	.237	.128	.039	.226	.124	.038	.216	.120	.037		
4.0	.236	.122	.036	.230	.120	.036	.220	.116	.035	.210	.113	.034	.201	.109	.033		
5.0	.218	.111	.032	.213	.110	.032	.204	.106	.031	.195	.103	.031	.187	.100	.030		
6.0	.203	.102	.029	.199	.100	.029	.190	.097	.028	.182	.095	.028	.175	.092	.027		
7.0	.189	.094	.027	.185	.092	.026	.178	.090	.026	.171	.088	.025	.164	.085	.025		
8.0	.177	.087	.024	.174	.086	.024	.167	.083	.024	.161	.081	.023	.155	.079	.023		
9.0	.167	.081	.022	.163	.080	.022	.157	.078	.022	.151	.076	.022	.146	.074	.021		
10.0	.157	.075	.021	.154	.074	.021	.148	.073	.020	.143	.071	.020	.138	.069	.020		

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.215	.215	.215	.184	.184	.184	.126	.126	.126	.072	.072	.072	.023	.023	.023	
1.0	.205	.181	.160	.175	.156	.138	.120	.107	.095	.069	.062	.056	.022	.020	.018	
2.0	.195	.157	.125	.167	.135	.108	.115	.094	.075	.066	.054	.044	.021	.018	.014	
3.0	.187	.140	.102	.160	.120	.088	.110	.084	.062	.064	.049	.037	.020	.016	.012	
4.0	.179	.126	.086	.154	.109	.075	.106	.076	.053	.061	.045	.031	.020	.014	.010	
5.0	.172	.116	.075	.147	.100	.065	.101	.070	.046	.059	.041	.027	.019	.013	.009	
6.0	.164	.107	.066	.141	.093	.058	.097	.065	.041	.057	.038	.024	.018	.013	.008	
7.0	.158	.100	.060	.136	.087	.053	.094	.061	.037	.054	.036	.022	.018	.012	.007	
8.0	.151	.095	.056	.130	.082	.048	.090	.058	.034	.052	.034	.020	.017	.011	.007	
9.0	.145	.090	.052	.125	.078	.045	.087	.055	.032	.051	.032	.019	.016	.011	.006	
10.0	.140	.085	.049	.121	.074	.043	.084	.052	.030	.049	.031	.018	.016	.010	.006	

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2021-03-11

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.950m [K=1.0000]  
Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.00V I:0.6797A P:16.31W PF:1.000 Freq:0Hz Lamp Flux:730.136x1 lm											
NAME: ALS-LR3840FDXWS1000(B)						TYPE:		WEIGHT:			
SPEC.:ALS-LR3840FDXWS1000(B)-F15NW9X-BC						DIM.: 1000*38*40mm		SERIAL No.:			
MFR.: COLORS						SUR.:1000*38		Shielding Angle:			
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		Viewed crosswise					Viewed endwise				
x = 2H y = 2H	2H	2.2	3.6	2.5	3.8	4.1	19.1	20.5	19.4	20.8	21.1
	3H	2.0	3.2	2.3	3.5	3.8	21.2	22.5	21.5	22.7	23.0
	4H	1.8	3.1	2.2	3.4	3.7	22.0	23.2	22.3	23.5	23.8
	6H	1.8	2.9	2.1	3.2	3.6	22.6	23.7	23.0	24.1	24.4
	8H	1.7	2.8	2.1	3.2	3.5	22.8	23.9	23.1	24.2	24.6
	12H	1.7	2.8	2.1	3.1	3.5	22.9	23.9	23.3	24.3	24.6
4H	2H	6.3	7.6	6.7	7.9	8.2	18.9	20.1	19.2	20.4	20.7
	3H	6.1	7.2	6.5	7.5	7.9	21.0	22.1	21.4	22.4	22.8
	4H	6.0	7.0	6.4	7.4	7.8	22.0	23.0	22.4	23.3	23.7
	6H	5.9	6.8	6.4	7.2	7.6	22.7	23.6	23.2	24.0	24.5
	8H	5.9	6.7	6.3	7.1	7.6	23.0	23.8	23.5	24.2	24.7
	12H	5.8	6.6	6.3	7.0	7.5	23.2	23.9	23.7	24.4	24.8
8H	4H	8.3	9.1	8.8	9.5	10.0	21.9	22.7	22.3	23.1	23.5
	6H	8.2	8.9	8.7	9.4	9.9	22.7	23.3	23.2	23.8	24.3
	8H	8.2	8.8	8.7	9.3	9.8	23.0	23.6	23.5	24.1	24.6
	12H	8.2	8.7	8.7	9.2	9.7	23.2	23.7	23.8	24.3	24.8
12H	4H	9.0	9.7	9.4	10.1	10.6	21.8	22.5	22.3	23.0	23.5
	6H	8.9	9.5	9.4	10.0	10.5	22.6	23.2	23.1	23.7	24.2
	8H	8.9	9.4	9.4	9.9	10.4	23.0	23.5	23.5	24.0	24.5
Variations with the observer position at spacings:											
S = 1.0H	+ 1.2 / - 1.5					+ 0.4 / - 0.3					
1.5H	+ 1.2 / - 1.2					+ 1.1 / - 0.9					
2.0H	+ 1.7 / - 2.0					+ 1.8 / - 1.9					

CIE Pub.117, 730.1 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.1)

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2021-03-11

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.950m [K=1.0000]  
Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.6797A P:16.31W PF:1.000 Freq:0Hz Lamp Flux:730.136x1 lm		
NAME: ALS-LR3840FDXWS1000(B)	TYPE:	WEIGHT:
SPEC.:ALS-LR3840FDXWS1000(B)-F15NW9X-BC	DIM.: 1000*38*40mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*38	Shielding Angle:

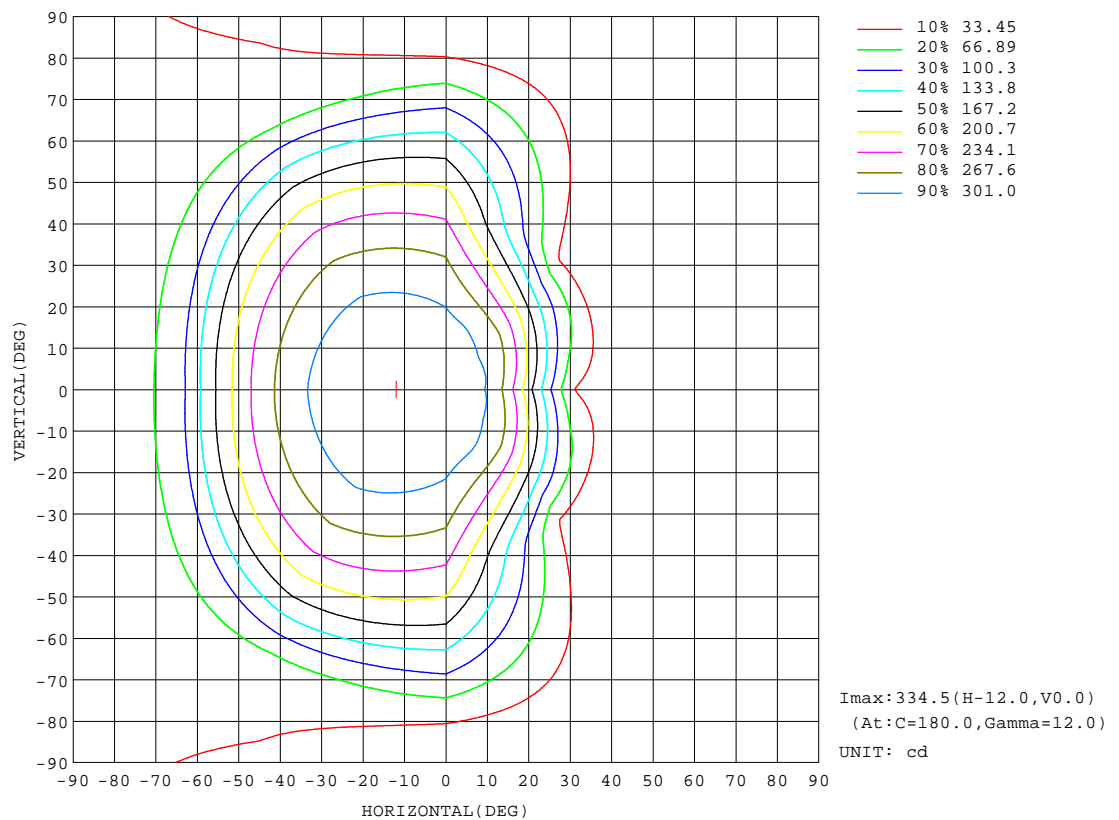
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	49	42	59	49	42	58	48	42	36
0.80	70	59	52	69	58	51	67	57	51	44
1.00	78	67	60	76	66	60	74	67	59	52
1.25	84	74	68	83	74	67	80	72	66	59
1.50	89	80	73	87	79	72	84	77	71	64
2.00	95	87	81	93	86	80	90	83	78	70
2.50	99	91	86	97	90	85	93	87	82	74
3.00	102	95	90	100	94	89	95	90	86	77
4.00	106	100	96	103	98	94	99	94	91	81
5.00	108	103	99	105	101	97	100	97	94	84
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:JYH  
 Test Date:2021-03-11

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.950m [K=1.0000]  
 Remarks:

### ISOCANDELA DIAGRAM

Test:U:24.00V I:0.6797A P:16.31W PF:1.000 Freq:0Hz Lamp Flux:730.136x1 lm		
NAME: ALS-LR3840FDXWS1000(B)	TYPE:	WEIGHT:
SPEC.:ALS-LR3840FDXWS1000(B)-F15NW9X-BC	DIM.: 1000*38*40mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*38	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2021-03-11

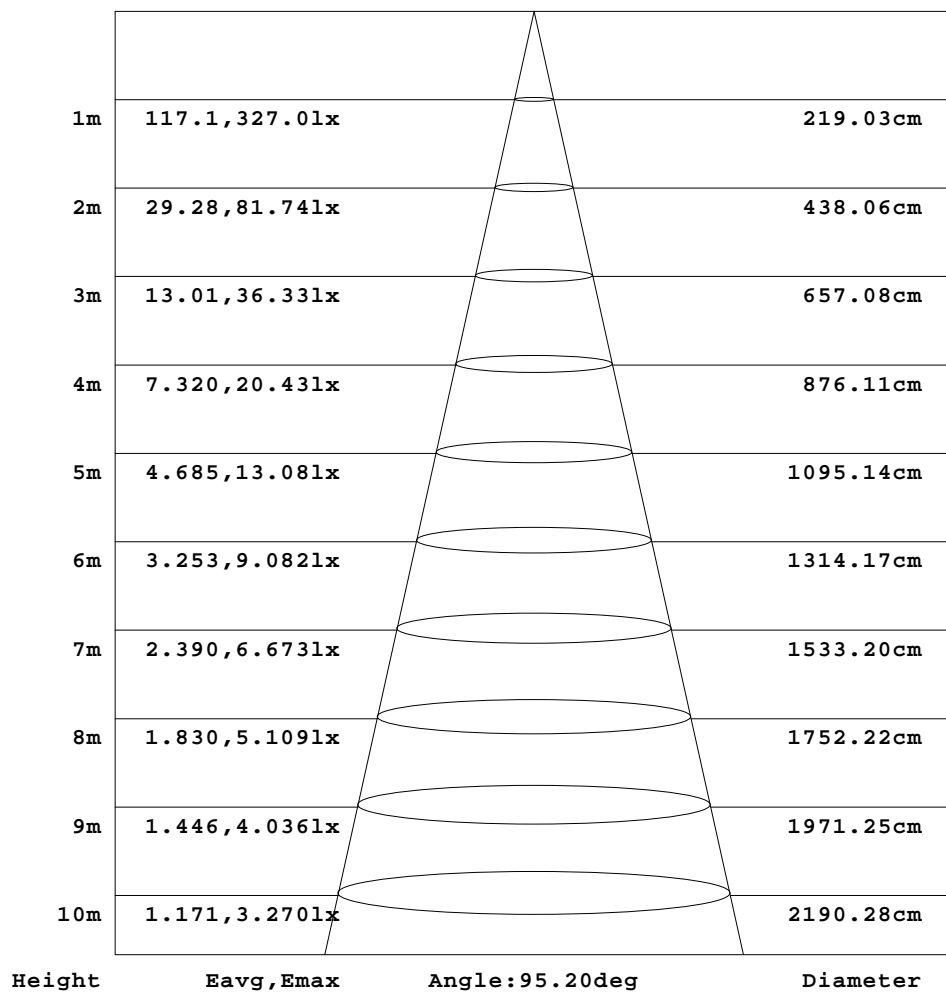
deg Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.950m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:24.00V I:0.6797A P:16.31W PF:1.000 Freq:0Hz Lamp Flux:730.136x1 lm		
NAME: ALS-LR3840FDXWS1000(B)	TYPE:	WEIGHT:
SPEC.:ALS-LR3840FDXWS1000(B)-F15NW9X-BC	DIM.: 1000*38*40mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*38	Shielding Angle:

Flux out:453.8 lm



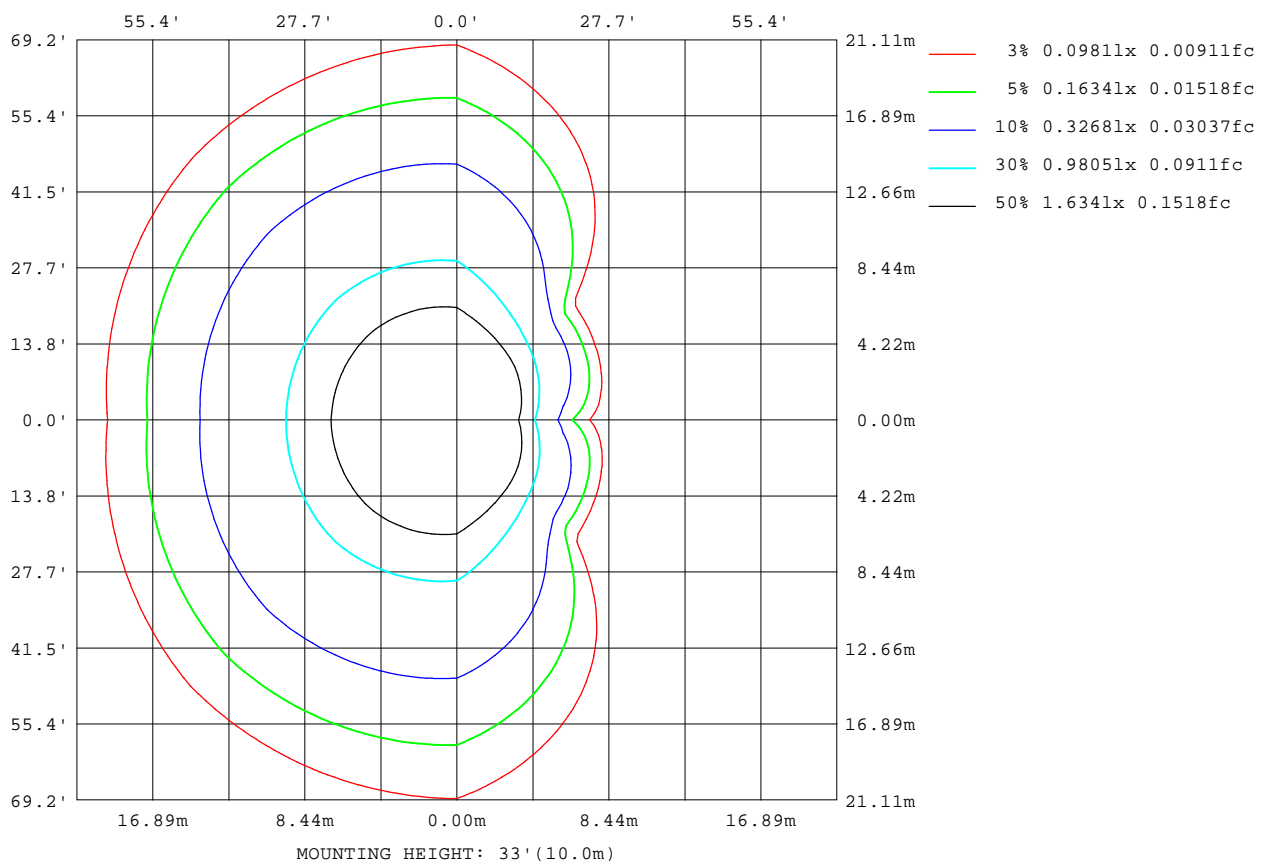
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JYH  
Test Date: 2021-03-11

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 10.950m [K=1.0000]  
Remarks:

### ISOLUX DIAGRAM

Test:U:24.00V I:0.6797A P:16.31W PF:1.000 Freq:0Hz Lamp Flux:730.136x1 lm		
NAME: ALS-LR3840FDXWS1000(B)	TYPE:	WEIGHT:
SPEC.:ALS-LR3840FDXWS1000(B)-F15NW9X-BC	DIM.: 1000*38*40mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*38	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: JYH  
 Test Date: 2021-03-11

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 10.950m [K=1.0000]  
 Remarks:

### LED Avg.L Report

Test:U:24.00V I:0.6797A P:16.31W PF:1.000 Freq:0Hz Lamp Flux:730.136x1 lm		
NAME: ALS-LR3840FDXWS1000(B)	TYPE:	WEIGHT:
SPEC.:ALS-LR3840FDXWS1000(B)-F15NW9X-BC	DIM.: 1000*38*40mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*38	Shielding Angle:

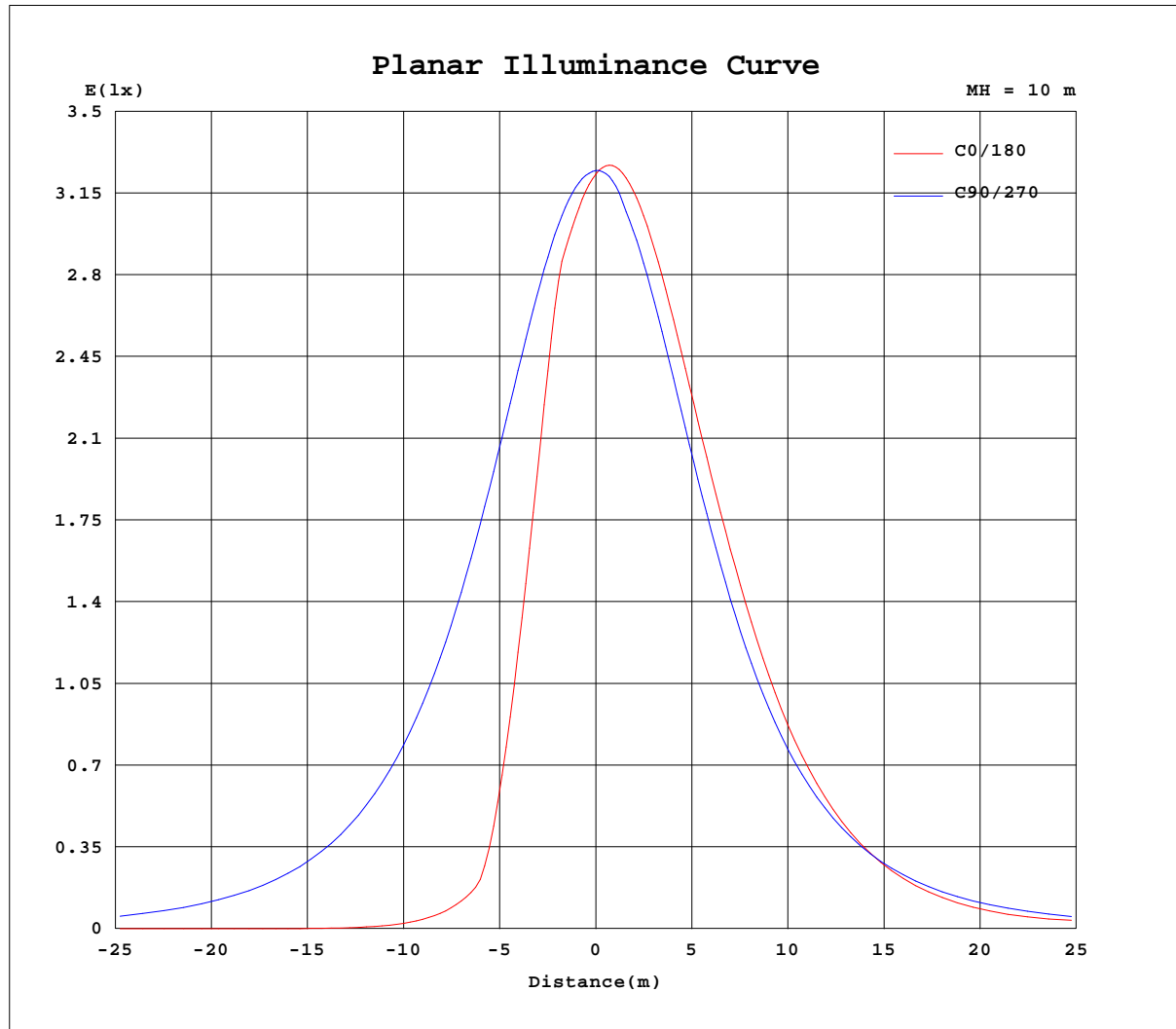
AvgL	cd/m2
L_0~180(65)av	2568
L_0~180(75)av	3100
L_0~180(85)av	7131
L_90~270(65)av	7420
L_90~270(75)av	6317
L_90~270(85)av	4060
L_45(65)av	3589
L_45(75)av	2581
L_45(85)av	5289

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2021-03-11

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.950m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JYH  
Test Date: 2021-03-11

deg Range: 0 - 180DEG  
deg Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 10.950m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.6797A P:16.31W PF:1.000 Freq:0Hz Lamp Flux:730.136x1 lm		
NAME: ALS-LR3840FDXWS1000(B)	TYPE:	WEIGHT:
SPEC.:ALS-LR3840FDXWS1000(B)-F15NW9X-BC	DIM.: 1000*38*40mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*38	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	45	90	135	180	225	270	315										
0	323	325	325	324	323	325	325	324										
5	312	317	323	328	331	330	324	317										
10	299	307	320	330	334	331	318	304										
15	249	294	313	329	334	327	310	290										
20	178	258	304	324	330	321	301	254										
25	105	205	293	316	322	313	288	202										
30	41.6	147	278	306	311	301	274	144										
35	21.6	88.5	262	291	296	287	257	86.9										
40	12.6	38.4	243	274	275	269	238	37.2										
45	6.69	20.3	223	254	247	248	218	18.6										
50	3.06	11.9	200	228	213	221	195	10.8										
55	1.06	6.26	175	196	172	190	171	5.75										
60	0.15	2.79	149	160	126	154	145	2.62										
65	0.15	0.79	121	117	82.3	112	117	0.79										
70	0.19	0.19	92.4	73.3	67.5	68.8	88.7	0.17										
75	0.31	0.21	63.6	51.8	60.7	49.4	60.7	0.15										
80	0.34	0.25	36.5	43.4	53.7	41.6	34.7	0.16										
85	0.41	0.33	13.9	35.4	46.8	34.1	13.0	0.21										
90	0.51	0.41	0.90	28.0	40.1	27.1	0.13	0.32										
95	0.63	0.49	0.76	21.2	33.3	20.5	0.25	0.39										
100	0.65	0.59	0.74	14.7	26.5	14.2	0.48	0.50										
105	0.75	0.74	0.85	8.25	19.8	7.98	0.80	0.59										
110	0.85	1.00	1.18	2.04	13.1	1.91	1.17	0.81										
115	1.13	1.30	1.59	0.19	6.58	0.11	1.48	1.13										
120	1.45	1.61	1.90	0.22	0.25	0.11	1.74	1.41										
125	1.78	1.91	2.13	0.27	0.06	0.19	1.96	1.67										
130	2.10	2.23	2.46	0.35	0.09	0.32	2.16	1.90										
135	2.44	2.51	2.55	0.53	0.17	0.43	2.34	2.12										
140	2.75	2.75	2.71	0.84	0.29	0.73	2.46	2.39										
145	2.99	2.91	2.84	1.22	0.47	1.13	2.59	2.54										
150	3.25	3.05	2.96	1.71	0.86	1.67	2.77	2.68										
155	3.51	3.20	3.11	2.25	1.39	2.22	3.03	2.88										
160	3.71	3.38	3.36	2.81	1.99	2.86	3.29	3.08										
165	3.96	3.53	3.58	3.35	2.63	3.40	3.55	3.39										
170	4.08	3.78	3.77	3.73	3.19	3.84	3.78	3.63										
175	4.14	4.03	3.97	3.92	3.55	3.97	4.01	3.95										
180	3.98	4.24	4.15	4.08	3.94	4.21	4.19	4.10										

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
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